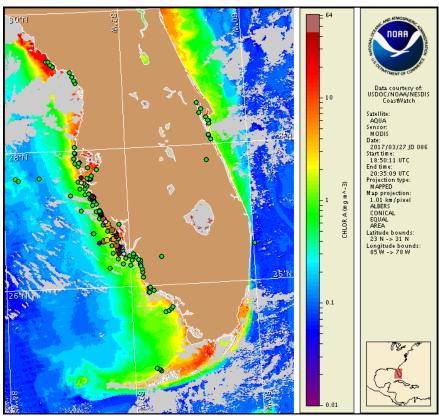


Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida Thursday, 30 March 2017 NOAA National Ocean Service NOAA Satellite and Information Service NOAA National Weather Service

Last bulletin: Monday, March 27, 2017



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from March 20 to 28: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/hab_publication/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: http://tidesandcurrents.noaa.gov/hab/bulletins.html

Conditions Report

Not present to medium concentrations of *Karenia brevis* (commonly known as Florida red tide) are present along- and offshore portions of southwest Florida and not present in the Florida Keys. *K. brevis* concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction. The highest level of potential respiratory irritation forecast for Thursday, March 30 through Monday, April 3 is listed below:

County Region: Forecast (Duration) **Southern Pinellas:** Very Low (Th-M)

Northern Manatee, bay regions: Very Low (Th-M)

Southern Manatee: Very Low (Th-M)

Southern Manatee, bay regions: Very Low (Th-M)

Northern Sarasota: Low (Th-M)

Northern Sarasota, bay regions: Low (Th-M)

Southern Sarasota: Moderate (Th-M)

Southern Sarasota, bay regions: Very Low (Th-M)

Northern Charlotte: Moderate (Th-M)

Northern Charlotte, bay regions: Moderate (Th-M)

Southern Charlotte: Moderate (Th-M)

Southern Charlotte, bay regions: Moderate (Th-M)

Northern Lee: Moderate (Th-M)

Northern Lee, bay regions: Low (Th-M)

Central Lee: Very Low (Th-M)

Central Lee, bay regions: Very Low (Th-M)

Southern Lee: Very Low (Th-M)

All Other SWFL County Regions: None expected (Th-M)

Check https://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations. Health information, from the Florida Department of Health and other agencies, is available at https://tidesandcurrents.noaa.gov/hab/hab_health_info.html. Over the past several days, there have been no reports of respiratory irritation. Dead fish were reported in Lee County.

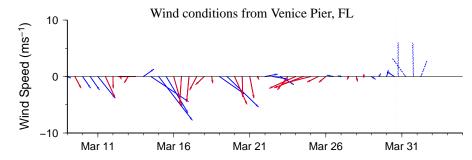
Analysis

Recent samples collected along- and offshore the coast of southwest Florida from southern Manatee to central Lee counties, identified not present to 'medium' concentrations of *Karenia brevis*, with the highest concentrations collected alongshore southern Sarasota to northern Lee counties, and in the bay regions of Charlotte County (FWRI, MML, SCHD, CCENRD; 3/20-3/28). Detailed sample information and a summary of impacts can be obtained through FWC Fish and Wildlife Research Institute at: http://myfwc.com/redtidestatus.

Recent ensemble imagery (MODIS Aqua, 3/27) is partially obscured by clouds from Manatee to Collier counties, limiting analysis; however, elevated chlorophyll (2-6 μ g/L) is visible but does not indicate the presence of chlorophyll anomalies with the optical characteristics of *K. brevis* alongshore southwest Florida from Pinellas to Monroe counties, including the Florida Keys.

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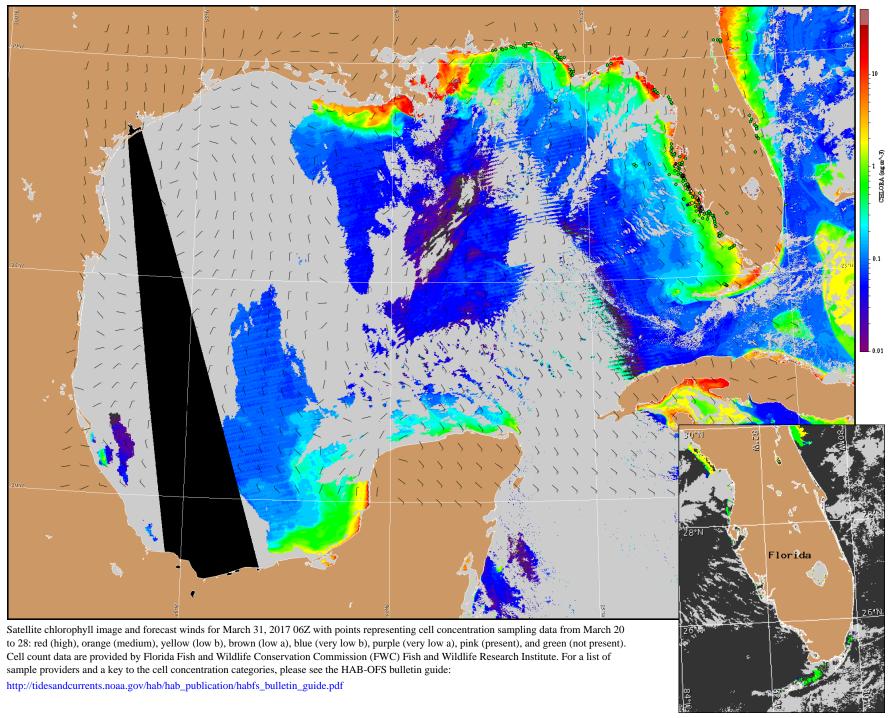


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

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Wind Analysis

Englewood to Tarpon Springs (Venice): Southeast to south winds (5-15kn, 3-8m/s) today through Friday evening. Variable winds (5-10kn, 3-5m/s) Friday night to Sunday. South to southeast winds (5-20kn, 5-10m/s) Sunday afternoon through Monday.



Verified and suspected HAB areas shown in red. Other areas with *K. brevis* optical characteristics shown in yellow (see p. 1 analysis for interpretation).